

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2085_01_s_2013_7				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2085_01_s_2013_9				
Comment Code					
Inspector Comment					
Flood fighting supplies are available at the River Club.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				o	
					o	
DWR ID	DWR_RD2085_01_s_2013_14					
Comment Code						
Inspector Comment						
The LMA has a flood fighting plan and training.						

No Photos

LM Start	0.12	Rating **	A/W	Issue No.	19
LM End	0.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.719052 °	37.723246 °
				-121.302928 °	-121.299492 °
DWR ID	DWR_RD2085_01_f_2015_19				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Disking on the levee shoulder. Make sure the water drains evenly to the slopes.					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_19\_20170407\_00010.jpg



View of the disking on the levee crown shoulder.

LM Start	0.46	Rating **	U	Issue No.	54
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.723182 °	37.723383 °
				-121.299549 °	-121.299370 °
DWR ID	DWR_RD2085_01_s_2017_54				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_54\_20170421\_00069.jpg



View of the vegetation on the landside levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	0.53	Rating **	A/W	Issue No.	55 (cont)	
LM End	0.53	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.723415 °		37.723415 °
				-121.298596 °		-121.298596 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47170						
DS_ID:20677						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: Pipe has been removed by LMA.Previous:Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged.						
FIELD_STRUCT_DESC: *REMOVED* 14-inch steel stormdrain pipe through the levee 4.5 feet below crown. Pump on pile structure in ditch on the landward side. Siphon breaker in corrugated metal riser unit on the waterward shoulder. Originally included in the 1968 O&M manual. Pipe removed by LMA. Permit Application No. T2013179 submitted to CVFPB. Permit was not needed per CVFPB review.						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP\_SP\_2017\_47170\_62260.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder. Filled with soil.

LM Start	0.70	Rating **	M	Issue No.	48
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.721939 °	37.717553 °
				-121.296102 °	-121.291828 °
DWR ID	DWR_RD2085_01_s_2017_48				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_48\_20170421\_00068.jpg



View of the vegetation on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	0.87	Rating **	M	Issue No.	53
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.720142 °	37.720142 °
				-121.294027 °	-121.294027 °
DWR ID	DWR_RD2085_01_s_2017_53				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_53\_20170421\_00070.jpg



View of the tire rut on the waterside levee shoulder.

LM Start	1.18	Rating **	M	Issue No.	47
LM End	1.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.716216 °	37.716216 °
				-121.291387 °	-121.291387 °
DWR ID	DWR_RD2085_01_s_2017_47				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle ruts on the levee slope and toe.					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_47\_20170421\_00067.jpg



View of the disturbed landside levee slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	1.35	Rating **	A/W	Issue No.	56
LM End	1.35	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714409 °	37.714409 °
				-121.289479 °	-121.289479 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19384 DS_ID:20678 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Steel walkway with handrails to the pump structure. Gate valve and Siphon breaker in 12-inch steel riser unit on the waterward shoulder. Originally included in the 1968 O&M manual. (Permit No. 8189, 1972) FS Date: 9/5/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_19384\_32928.jpg



Pipe, siphon breaker, and gate valve on WS slope.

LM Start	<b>1.35</b>	Rating **	A/W	Issue No.	<b>56 (cont)</b>
LM End	<b>1.35</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_19384\_32927.jpg



Pump on metal pier on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	1.35	Rating **	A/W	Issue No.	56 (cont)
LM End	1.35	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714409 °	37.714409 °
				-121.289479 °	-121.289479 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19384 DS_ID:20678 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 3-feet below the crown. Pump mounted on pile structure in ditch on the landward side. Steel walkway with handrails to the pump structure. Gate valve and Siphon breaker in 12-inch steel riser unit on the waterward shoulder. Originally included in the 1968 O&M manual. (Permit No. 8189, 1972) FS Date: 9/5/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_19384\_32926.jpg



Pipe, siphon breaker, and gate valve on WS slope.

LM Start	1.41	Rating **	M	Issue No.	58
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714049 °	37.714049 °
				-121.288426 °	-121.288426 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41351 DS_ID:20679 EP_NO: 3975 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Large hole in ground over pipe on WS berm. Pipe rusted through on WS at river bank. No connection to pump on LS toe. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4-feet below the crown. Steel plate over pipe end at pump station on LS toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_41351\_62268.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	1.41	Rating **	M	Issue No.	58 (cont)
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714049 °	37.714049 °
				-121.288426 °	-121.288426 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41351					
DS_ID:20679					
EP_NO: 3975					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned and should be done so properly.					
Large hole in ground over pipe on WS berm. Pipe rusted through on					
WS at river bank. No connection to pump on LS toe.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe					
through the levee 4-feet below the crown. Steel plate over pipe end at					
pump station on LS toe. Siphon breaker in 24-inch corrugated metal					
riser unit on the waterward shoulder (Permit No. 3975, 1962). Originally					
included in the 1968 O&M manual.					
FS Date: 9/5/2013					

LM Start	1.41	Rating **	M	Issue No.	58 (cont)
LM End	1.41	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_41351\_62267.jpg



Pipe visible at bottom of ditch on LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_41351\_62266.jpg



Pipe visible at bottom of ditch on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	1.63	Rating **	M	Issue No.	43
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.712676 °	37.712676 °
				-121.284732 °	-121.284732 °
DWR ID	DWR_RD2085_01_s_2017_43				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.79	Rating **	M	Issue No.	39
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.711456 °	37.711456 °
				-121.282397 °	-121.282397 °
DWR ID	DWR_RD2085_01_s_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee.					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_39\_20170407\_00022.jpg



View of the rodent burrows on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	<b>2.56</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	WS

A photograph of a riverbank. On the left, a calm body of water reflects the sky. The bank is covered with a mix of green shrubs and dry, yellowed grasses. The background shows a clear blue sky and more greenery on the opposite bank.

Direct view of the erosion. Note the dense vegetation at the site.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement





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### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	<b>2.90</b>	Rating **	A/W	Issue No.	<b>21</b>
LM End	<b>2.90</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.698700°	37.698700°	
			-121.277199°	-121.277199°	
DWR ID	DWR_RD2085_01_f_2015_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This area should be monitored for possible rodent activity.					

No Photos

LM Start	<b>3.27</b>	Rating **	M	Issue No.	<b>42</b>
LM End	<b>3.27</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.694085°	37.694085°	
			-121.277378°	-121.277378°	
DWR ID	DWR_RD2085_01_s_2017_42				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	61
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_19433\_32990.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

LM Start	<b>3.30</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>3.30</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_19433\_32989.jpg



Pipe visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	61 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel stormdrain pipe through the levee 4.0-feet below the crown. T-post marks location of Pipe at LS toe. Steel plate welded over pipe on WS slope. Asbuilts available DWG 7-4-1685. Originally included in the 1968 O&M manual. FS Date: 9/5/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_19433\_32988.jpg



Pipe visible on WS slope. Steel plate welded over end.

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019 °	37.693019 °
				-121.277892 °	-121.277892 °
DWR ID	DWR_RD2085_01_s_2014_30				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.55	Rating **	A/W	Issue No.	44
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690418 °	37.690418 °
				-121.276815 °	-121.276815 °
DWR ID	DWR_RD2085_01_s_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee slope.					

No Photos

LM Start	3.57	Rating **	M	Issue No.	45
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690161 °	37.690161 °
				-121.276543 °	-121.276543 °
DWR ID	DWR_RD2085_01_s_2016_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2017\_RD2085\_113\_45\_20170407\_00023.jpg



View of the rodent burrows on the landside levee slope. Fall 2016

LM Start	<b>3.57</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>3.57</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD2085\_113\_45\_20170407\_00024.jpg



View of the rodent burrows on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.71	Rating **	A/W	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Control levee access to prevent damage to levee slopes by vehicle.					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_25\_20170407\_00012.jpg



View of the waterside levee slope damaged by vehicle.

LM Start	3.74	Rating **	A/W	Issue No.	26	
LM End	3.74	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.687841 °		37.687841 °
				-121.276678 °		-121.276678 °
DWR ID	DWR_RD2085_01_f_2015_26					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Area should be maintained to prevent further levee damage.						

Photo 1 of 1 : SP\_2017\_RD2085\_113\_26\_20170407\_00013.jpg



View of the foot path on the levee slope.

LM Start	3.78	Rating **	M	Issue No.	46
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687253°	37.687253°
				-121.276780°	-121.276780°
DWR ID	DWR_RD2085_01_s_2016_46				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_46\_20170421\_00065.jpg



View of the tire tracks on the levee slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.80	Rating **	A/W	Issue No.	63
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch Reinforced concrete box culvert stormdrain through the levee 12.0 feet below the crown. Slide gate in concrete riser unit on the waterward slope. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Two concrete cutoff walls. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 9:49:55 AM					

Photo 1 of 3 : UCIP\_SP\_2017\_19436\_32997.jpg



Slide gate in Concrete riser on WS shoulder.

LM Start	<b>3.80</b>	Rating **	A/W	Issue No.	<b>63 (cont)</b>
LM End	<b>3.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_19436\_32996.jpg



Concrete headwall off LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	3.80	Rating **	A/W	Issue No.	63 (cont)	
LM End	3.80	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °	
				-121.276838 °	-121.276838 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch Reinforced concrete box culvert stormdrain through the levee 12.0 feet below the crown. Slide gate in concrete riser unit on the waterward slope. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Two concrete cutoff walls. Originally included in the 1968 O&M manual. FS Date: 9/5/2013 9:49:55 AM						

Photo 3 of 3 : UCIP\_SP\_2017\_19436\_32995.jpg



Concrete U-shaped headwall on WS slope.

LM Start	3.86	Rating **	M	Issue No.	36
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686059 °	37.685340 °
				-121.276745 °	-121.276594 °
DWR ID	DWR_RD2085_01_f_2016_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_36\_20170407\_00021.jpg



View of the rodent holes on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	4.15	Rating **	M	Issue No.	34
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682495 °	37.682495 °
				-121.274169 °	-121.274169 °
DWR ID	DWR_RD2085_01_f_2016_34				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_34\_20170407\_00020.jpg



View of the rodent holes on the levee slope.

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_32\_20170407\_00017.jpg



11/03/2011 Large stump on landside slope.

LM Start	4.63	Rating **	M	Issue No.	40
LM End	4.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.680963 °	37.678389 °
				-121.265844 °	-121.266341 °
DWR ID	DWR_RD2085_01_s_2017_40				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_40\_20170421\_00063.jpg



View of the vegetation on the landside levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	5.05	Rating **	C	Issue No.	51
LM End	5.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.677691 °	37.677691 °
				-121.269236 °	-121.269236 °
DWR ID	DWR_RD2085_01_s_2016_51				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	5.20	Rating **	M	Issue No.	52
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.675620 °	37.675620 °
				-121.269359 °	-121.269359 °
DWR ID	DWR_RD2085_01_s_2016_52				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_52\_20170407\_00026.jpg



View of the tire tracks on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	5.22	Rating **	A/W	Issue No.	65
LM End	5.22	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °
				-121.269281 °	-121.269281 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23060					
DS_ID:20686					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 30-inch reinforced concrete stormdrain pipe					
through the levee 10.0 feet below the crown. Concrete "U" shaped					
headwall on the waterward end. Two corrugated metal cutoff walls. Flap					
gate on the waterward end. Originally included in the 1968 O&M					
manual.					
FS Date: 9/5/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_23060\_39184.jpg



Cuts in pavement off LS toe good indicator of pipe location.

LM Start	<b>5.22</b>	Rating **	A/W	Issue No.	<b>65 (cont)</b>
LM End	<b>5.22</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_23060\_39183.jpg



Concrete U-shaped headwall visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	5.22	Rating **	A/W	Issue No.	65 (cont)	
LM End	5.22	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23060						
DS_ID:20686						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch reinforced concrete stormdrain pipe						
through the levee 10.0 feet below the crown. Concrete "U" shaped						
headwall on the waterward end. Two corrugated metal cutoff walls. Flap						
gate on the waterward end. Originally included in the 1968 O&M						
manual.						
FS Date: 9/5/2013						

Photo 3 of 3 : UCIP\_SP\_2017\_23060\_39182.jpg



Concrete U-shaped headwall and flapgate visible on WS toe.

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099 °	37.675099 °
				-121.269264 °	-121.269264 °
DWR ID	DWR_RD2085_01_f_2015_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_113\_29\_20170407\_00016.jpg



View of the tree stump.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	0.02	Rating **	M	Issue No.	1
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705050 °	37.713105 °
				-121.274587 °	-121.270091 °
DWR ID	DWR_RD2085_02_s_2017_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2085\_114\_1\_20170421\_00001.jpg



View of the vegetation on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798 °	37.683052 °
				-121.262059 °	-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

LM Start	<b>0.21</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD2085\_115\_1\_20170421\_00004.jpg



View of the erosion at the waterside levee toe. Spring 2017.

Photo 2 of 3 : SP\_2017\_RD2085\_115\_1\_20170407\_00001.jpg



View of the erosion at the waterside levee toe. Fall 2016.

LM Start	<b>0.21</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD2085\_115\_1\_20170407\_00002.jpg



View of the erosion at the waterside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	04/20/2017 04/20/2017	Maksim Khashchuk

LM Start	<b>0.25</b>	Rating **	C	Issue No.	<b>7</b>
LM End	<b>0.25</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.683274 °	37.683274 °	
			-121.261839 °	-121.261839 °	
DWR ID	DWR_RD2085_03_f_2016_7				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement